STRONG3000

TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

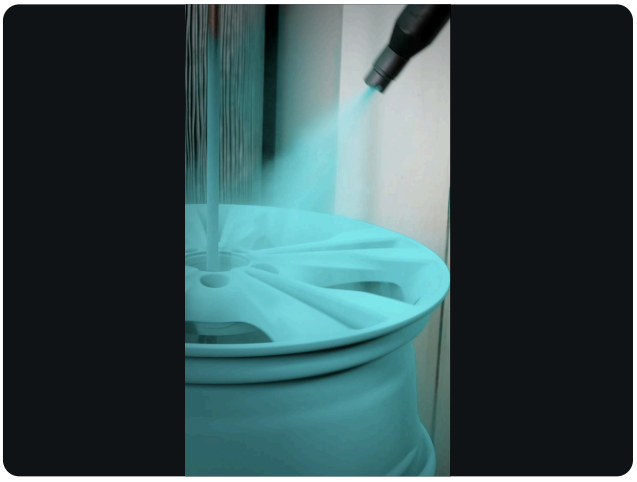
INDUSTRIES

Powder Coating Lines and KTL Plants for Wheels & Automotive Suppliers

From alloy wheels to chassis brackets, from automotive supplier powder coating lines to combined KTL primer + powder coating plants — high-volume production engineering for surfaces that resist corrosion and stone chips.

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strong3000.com/en/industries/automotive/

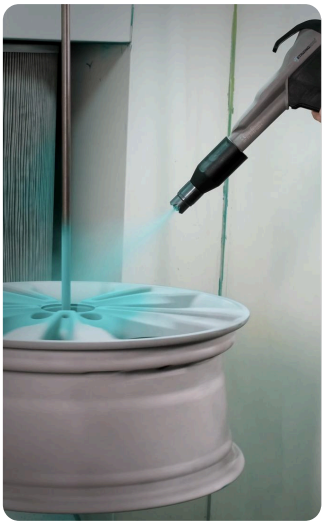


OVERVIEW

Engineering for Automotive & Wheel Lines.

Automotive production requires surfaces that withstand corrosion, stone chips, chemicals and mechanical load, applied consistently at production volume. STRONG3000 engineers the powder coating application, automation, curing and KTL pretreatment technology for automotive parts — from alloy wheels to chassis components.

From individual wheel powder coating machines to complete turnkey automotive parts paint shop lines, we design the process around each part and production target.



APPLICATIONS

Parts We Help Coat.

Every automotive part comes with its own challenges — Faraday zones in wheel channels, outgassing from casting porosity, high temperatures in the exhaust system and corrosion from road salt. Below we summarize how we approach automotive parts; you can download part-specific technical datasheets (PDF) for each part's metallurgy and application approach.



POWDER COATING

Alloy Wheels (Cast/Forged Aluminum)

Faraday effect in the wheel channel and at spoke roots, outgassing risk in aluminum; degassing + multi-coat powder coating for a deep finish that resists stone chips and UV.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Chassis & Underbody Brackets

Risk of early corrosion at sharp cut edges and weld seams; phosphate/nano-ceramic + two-coat powder coating for chassis components that resist salt spray and stone chips.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Suspension Springs (Coil & Leaf Springs)

Faraday effect between tight coils, risk of film cracking under cyclic flexing; shot blasting + flexible, high-toughness powder for fatigue and corrosion resistance.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Brake Calipers (Cast)

Outgassing from casting porosity, brake heat and chemical load; degassing + heat-resistant powder for a durable, color-consistent caliper finish.

Technical Datasheet (PDF)

OWL Integration



POWDER ENAMEL

Exhaust Mufflers & EGR / Heat Exchangers (Interior)

~800 °C hot gas and acidic condensate on exhaust/EGR interiors; vitreous enamel fired at ~780-850 °C provides a non-porous interior lining resistant to thermal shock and oxidation.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Engine Compartment Brackets & Housings

Risk of adhesion loss/corrosion under engine compartment heat, oil and vibration; conversion coating + heat- and oil-resistant powder for protected brackets and housings.

Technical Datasheet (PDF)

OWL Integration

SOLUTIONS

The Right Process for Wheels & Automotive Suppliers.

Powder Coating Line

Automotive wheel powder coating machines and automatic wheel painting lines; durable protective finishes for chassis, suspension and trim parts.

Robotic Powder Coating Booth

Robot and robotic application systems for high-volume automotive production — programming specific to wheel geometry.

KTL & Pretreatment

Phosphate/nano-ceramic pretreatment and a combined KTL primer + powder coating line — full integration for automotive corrosion protection.

Turnkey Lines

Automotive parts paint shop line — a complete turnkey automotive powder coating plant from pretreatment to curing oven.

Smart AI Control

Adaptive control for repeatable results across a wide variety of automotive parts — including Faraday zone compensation.

WHY STRONG3000 FOR AUTOMOTIVE & WHEELS

Consistency at High Volume.

Automotive suppliers and wheel manufacturers require strict standards for corrosion resistance, stone chip resistance and decorative quality — all delivered at line speed. STRONG3000's expertise in wheel powder coating machines, robotic powder coating booths, KTL primer + powder coating lines and turnkey automotive paint shops means a solution that scales to your production capacity from a single integrator.



- ✓ Automatic wheel painting line — corona application with Faraday zone compensation
- ✓ Combined KTL primer + powder coating line (single integrator)
- ✓ Complex geometry application — OWL Intelligent Motion Gun
- ✓ High-volume robotic automation & turnkey delivery

CASE STUDIES

Projects from the Field.

Selected projects from STRONG3000 plants in operation.



Powder Coating · Booth

Range Hood / Extractor Cover Powder Coating Booth

Electrostatic powder coating application booth for range hood and extractor covers.

Scope	**Powder coating booth**
Project No.	**1467**



Enamel Furnace · Pretreatment

Enamel Furnace, Washing & Drying Line

Sintering (enamel) furnace, washing and drying line for enameling plants.

Country	**Türkiye**
Project No.	**0851**



Wet Enamel · Automatic Line

Valve & Pipe Wet Enamel Line

Automatic line-type wet enamel plant for the inside and outside of valves and pipes. Filtered, stackless application booths.

Country	**Germany**
Project No.	**0638**

See all case studies →

WHY STRONG3000?

The Engineering Difference.

We don't sell equipment and walk away; we stay with your line from design through commissioning and beyond.

Integrated Engineering

Machinery, electrical, automation and software under one roof — not sourced and assembled.

In-House Technology

Smart AI and OWL are original STRONG3000 technologies developed in-house.

Proven Experience

25+ years of engineering; installation, commissioning and service in 40+ countries.

24/7 Support

Phone, remote connection and 24/7 live support via WhatsApp.

Quotes & Technical Consulting

Tell us about your part, capacity and process. A STRONG3000 engineer will get back to you with a tailored proposal.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/industries/automotive/

FOR A QUOTE, PREPARE

- Product to Be Coated
- Max. Part Dimensions
- Required Capacity
- Number of Colors
- Daily Color Changes
- Coating Process
- Project Timeline

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering. This sheet summarises the product page on our website; scan the QR code for the latest information.